



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
3	Coarse aggregate(20 mm down size)	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	9 set /300-350 cum	310.59	18	18

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-05-16-09 Date: 07-03-22
 Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
 Address : Kodigehalli Sub Division, BBMP, Bangalore.
 Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.
 Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.
 Customer's Reference : BBMP/EE/BTP/WO/235/2019-20
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 03-03-22
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2 3,4,5, 6,11):1988
 IS 4031 Part 1, (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6
 Date of test : 04-03-22
 Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	—
2	Finess by Air permeability method (m ² /kg,Min)	285.3	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-05-16-09 Date: 01-04-22
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.
Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.
Customer's Reference : BBMP/EE/BTP/WO/235/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-03-22
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test : 04-03-22
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-05-16-09 Date: 07-03-22
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navyanagara in Ward No 07 Byatarayanapura.
Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.
Customer's Reference : BBMP/EE/BTP/WO/235/2019-20
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 03-03-22
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 03-03-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	598	598	4.0	96.0	90-100
3	20 mm	5085	5683	37.9	62.1	30-70
4	10 mm	6209	11892	79.3	20.7	10-35
5	4.75 mm	2514	14406	96.0	4.0	0-5
6	Pan	594	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2022-05-16-09

Date: 07-03-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.2	
3	Specific Gravity	2.61	—
4	Bulk Density(Loose) (Kg/l)	1.50	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.19	—

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Lab ID : CP-2022-05-16-09 Date: 07-03-22
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navyanagara in Ward No 07 Byatarayanapura.
Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.
Customer Reference : BBMP/EE/BTP/WO/235/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-03-22
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 03-03-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-05-16-09

Date: 07-03-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-05-16-09 Date: 07-03-22

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-03-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 03-03-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-05-16-09

Date: 07-03-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	—
2	Specific Gravity	2.53	—
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, * Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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C. P.
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2022-05-16-09 Date: 10-03-22

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navayanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/VO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-22

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test : 09-03-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory

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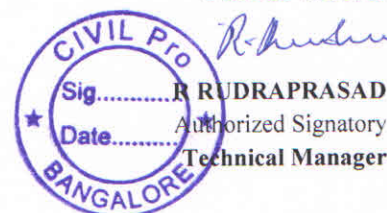
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Certificate No.: TC-5548

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-05-16-09 Date: 19-03-22

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navayanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-03-22

Sample Type /Size : Precast Cover Slab(100 mm thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 15/03/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	100.9	22.5	21.0	26.2
2	Cover Slab-2	75.49	100.52	1.122	4475	109.5	24.5	22.8	28.4
3	Cover Slab-3	75.50	100.51	1.118	4476	109.5	24.5	22.8	28.4

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-05-16-09 Date: 19-03-22

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navayanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-03-22

Sample Type /Size : Precast Cover Slab(200 mm thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 15/03/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	100.58	200.58	2.118	7944	180.5	22.7	21.1	26.4
2	Cover Slab-2	100.69	200.69	2.169	7961	170.9	21.5	20.0	25.0
3	Cover Slab-3	100.98	200.47	2.175	8007	195.5	24.4	22.7	28.4

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R. RUDRAPRASAD

Authorized Signatory

Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Page 1/1

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 21/03/2022
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.
Agency : Sri. Ramesh U. #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.
Customer's Reference : BBMP/EE/BTP/WO/235/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-03-22
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7- Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 21/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	14/03/2022	21/03/2022	149.79 X 150.58 X 150.98	22556	8.640	414.6	18.4	18.3
2	M20 Concrete	M20	14/03/2022	21/03/2022	150.51 X 149.88 X 150.91	22559	8.890	410.9	18.2	
3	M20 Concrete	M20	14/03/2022	21/03/2022	149.13 X 151.27 X 149.35	22559	8.155	411.2	18.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore
Page 1/1
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 11/04/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navyanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	14/03/2022	11/04/2022	150.99 X 151.78 X 151.28	22917	8.396	541.8	23.6	23.4
2	M20 Concrete	M20	14/03/2022	11/04/2022	151.51 X 150.13 X 149.92	22747	8.433	519.7	22.8	
3	M20 Concrete	M20	14/03/2022	11/04/2022	151.36 X 151.93 X 149.66	22995	8.916	544.4	23.7	

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CPD
Assistant Executive Engineer
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BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 21/03/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navyanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	14/03/2022	21/03/2022	149.55 X 150.38 X 151.35	22490	8.750	405.1	18.0	18.5
2	M20 Concrete	M20	14/03/2022	21/03/2022	151.32 X 150.29 X 151.40	22743	8.323	431.4	19.0	
3	M20 Concrete	M20	14/03/2022	21/03/2022	150.68 X 151.14 X 151.14	22774	8.478	424.6	18.6	

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M.M.Y. N.D

CPD

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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CIVIL Pro FOR CIVIL Pro.

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Date.....

R. RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 11/04/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navayanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	14/03/2022	11/04/2022	149.59 X 151.52 X 151.56	22665	8.999	524.4	23.1	23.1
2	M20 Concrete	M20	14/03/2022	11/04/2022	150.98 X 149.60 X 149.88	22586	9.030	515.4	22.8	
3	M20 Concrete	M20	14/03/2022	11/04/2022	149.23 X 149.03 X 150.73	22240	8.448	519.9	23.4	

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Handwritten Signature
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore
Page 1/1
****End of Report****



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★ RUDRAPRASAD
Authorized Signatory
Technical Manager

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 21/03/2022
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navayanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.
Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.
Customer's Reference : BBMP/EE/BTP/WO/235/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-03-22
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 21/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	14/03/2022	21/03/2022	151.30 X	22946	8.839	428.1	18.7	18.3
					151.66 X					
					149.63					
2	M20 Concrete	M20	14/03/2022	21/03/2022	149.05 X	22385	8.460	408.8	18.3	
					150.19 X					
					149.89					
3	M20 Concrete	M20	14/03/2022	21/03/2022	151.29 X	22968	8.460	413.4	18.0	
					151.81 X					
					150.55					

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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RUDRAPRASAD
Authorized Signatory
Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 11/04/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navayanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	14/03/2022	11/04/2022	151.87 X 151.62 X 151.69	23027	9.099	544.7	23.7	23.0
2	M20 Concrete	M20	14/03/2022	11/04/2022	150.09 X 149.66 X 151.32	22462	8.118	497.8	22.2	
3	M20 Concrete	M20	14/03/2022	11/04/2022	149.98 X 151.64 X 149.46	22742	8.966	526.7	23.2	

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Note:

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Ammy . U. D

CyS

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Date.....

R. RUDRAPRASAD
Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 21/03/2022
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.
Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.
Customer's Reference : BBMP/EE/BTP/WO/235/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-03-22
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 21/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	14/03/2022	21/03/2022	151.42 X 149.66 X 151.13	22662	8.153	417.5	18.4	18.5
2	M20 Concrete	M20	14/03/2022	21/03/2022	150.34 X 150.76 X 149.71	22666	8.512	427.9	18.9	
3	M20 Concrete	M20	14/03/2022	21/03/2022	151.48 X 151.59 X 149.43	22962	9.073	415.7	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Mr. R. U. D

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore
Page 1/1
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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Lab ID : CP-2022-05-16-09 Date: 11/04/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navayanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	14/03/2022	11/04/2022	151.11 X 151.38 X 149.86	22875	8.466	539.4	23.6	23.1
2	M20 Concrete	M20	14/03/2022	11/04/2022	150.34 X 150.26 X 150.96	22591	8.312	505.6	22.4	
3	M20 Concrete	M20	14/03/2022	11/04/2022	151.86 X 151.85 X 151.82	23061	8.406	537.3	23.3	

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Note:

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CP
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Sig.....
Date.....
RUDRAPRASAD
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Technical Manager

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Lab ID : CP-2022-05-16-09 Date: 21/03/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

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Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	14/03/2022	21/03/2022	150.47 X 150.92 X 150.52	22709	8.815	429.0	18.9	18.7
2	M20 Concrete	M20	14/03/2022	21/03/2022	151.54 X 151.52 X 151.01	22961	8.106	425.0	18.5	
3	M20 Concrete	M20	14/03/2022	21/03/2022	149.23 X 150.31 X 151.39	22431	8.310	417.9	18.6	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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M. N. U. D.

CyS

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Page 1/1
****End of Report****

CIVIL Pro
Sig.
Date.
BANGALORE

FOR CIVIL Pro.
RUDRAPRASAD
Authorized Signatory
Technical Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/04/2022

Lab ID : CP-2022-05-16-09
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navyanagara in Ward No 07 Byatarayanapura.
Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.
Customer's Reference : BBMP/EE/BTP/WO/235/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-03-22
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 11/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	14/03/2022	11/04/2022	151.01 X 150.41 X 149.28	22713	8.183	535.9	23.6	23.2
2	M20 Concrete	M20	14/03/2022	11/04/2022	150.18 X 151.57 X 150.99	22762	8.996	510.3	22.4	
3	M20 Concrete	M20	14/03/2022	11/04/2022	151.81 X 149.91 X 150.74	22757	9.062	537.9	23.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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Amruth N.D
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Date.....
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Authorized Signatory
Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 18/04/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navyanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	11/04/2022	18/04/2022	150.67 X 149.65 X 149.84	22549	8.409	424.9	18.8	18.6
2	M20 Concrete	M20	11/04/2022	18/04/2022	151.44 X 150.08 X 150.61	22729	8.312	428.5	18.9	
3	M20 Concrete	M20	11/04/2022	18/04/2022	151.26 X 150.70 X 151.04	22795	8.934	413.6	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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mmf. n.d

CPD

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Page 1/1
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CIVIL Pro
FOR CIVIL Pro.
Sig.....
Date.....
R REDRAPRASAD
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Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 09/05/2022
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.
Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.
Customer's Reference : BBMP/EE/BTP/WO/235/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-04-22
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 09/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	11/04/2022	09/05/2022	151.35 X 151.42 X 150.60	22919	8.130	547.0	23.9	23.3
2	M20 Concrete	M20	11/04/2022	09/05/2022	151.20 X 149.88 X 151.94	22662	8.923	518.3	22.9	
3	M20 Concrete	M20	11/04/2022	09/05/2022	150.19 X 150.86 X 150.12	22657	8.837	527.6	23.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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M. N. D.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 18/04/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	11/04/2022	18/04/2022	150.77 X 150.53 X 150.07	22696	8.452	417.4	18.4	18.7
2	M20 Concrete	M20	11/04/2022	18/04/2022	151.38 X 151.95 X 151.97	23001	8.314	433.3	18.8	
3	M20 Concrete	M20	11/04/2022	18/04/2022	149.98 X 149.94 X 151.12	22487	8.215	425.0	18.9	

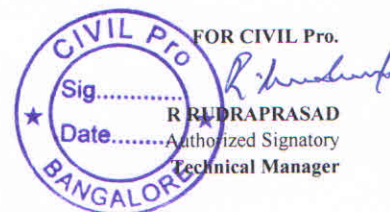
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Signature
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Kodigehalli Sub Division
BBMP, Bangalore

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 09/05/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	11/04/2022	09/05/2022	150.56 X 149.30 X 149.02	22479	8.155	523.6	23.3	23.1
2	M20 Concrete	M20	11/04/2022	09/05/2022	149.98 X 150.90 X 150.79	22631	8.674	507.5	22.4	
3	M20 Concrete	M20	11/04/2022	09/05/2022	151.55 X 149.93 X 151.70	22721	8.188	539.0	23.7	

* The results obtained are satisfactory as per standard requirements.

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CPD
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Page 1/1

****End of Report****



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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 18/04/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	11/04/2022	18/04/2022	149.87 X 149.33 X 149.43	22380	8.330	404.0	18.1	18.5
2	M20 Concrete	M20	11/04/2022	18/04/2022	151.59 X 151.97 X 151.36	23037	8.684	435.7	18.9	
3	M20 Concrete	M20	11/04/2022	18/04/2022	151.92 X 151.00 X 149.42	22940	8.248	427.9	18.7	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.
R. RUDRAPRASAD
Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 09/05/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navayanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	11/04/2022	09/05/2022	149.82 X 149.06 X 149.42	22333	8.689	524.6	23.5	23.0
2	M20 Concrete	M20	11/04/2022	09/05/2022	149.61 X 149.42 X 150.12	22355	8.182	497.8	22.3	
3	M20 Concrete	M20	11/04/2022	09/05/2022	149.62 X 151.72 X 149.72	22701	8.415	526.4	23.2	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

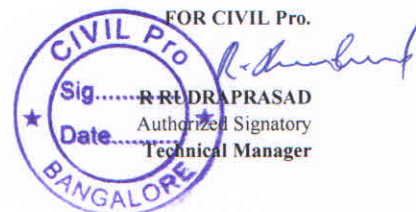
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Kodigehalli Sub Division
BBMP, Bangalore

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**TEST REPORT OF CEMENT CONCRETE CUBES**

Lab ID : CP-2022-05-16-09 Date: 18/04/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navyanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	11/04/2022	18/04/2022	150.90 X 150.35 X 150.69	22688	8.661	411.2	18.1	18.4
2	M20 Concrete	M20	11/04/2022	18/04/2022	150.93 X 151.76 X 150.19	22906	8.286	420.8	18.4	
3	M20 Concrete	M20	11/04/2022	18/04/2022	150.15 X 149.18 X 150.13	22400	8.500	418.1	18.7	

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Note:

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Amulya N.D.
CP
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Date.....
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Authorized Signatory
Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-05-16-09 Date: 09/05/2022

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 03 including 2 works 1) Improvements to Drains from 4th Cross to 6th Cross of Navayanagara in Ward No 07 Byatarayanapura. 2) Improvements to Drains of Main Roads of Navayanagara in Ward No 07 Byatarayanapura.

Agency : Sri. Ramesh U, #12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar (P), Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/235/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M20 Concrete	M20	11/04/2022	09/05/2022	151.89 X 149.38 X 149.85	22689	9.056	536.4	23.6	22.9
2	M20 Concrete	M20	11/04/2022	09/05/2022	150.54 X 150.38 X 151.82	22639	8.489	499.6	22.1	
3	M20 Concrete	M20	11/04/2022	09/05/2022	149.49 X 150.95 X 151.43	22565	8.867	519.5	23.0	

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Note:

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M. N. D.

SPD

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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****End of Report****



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